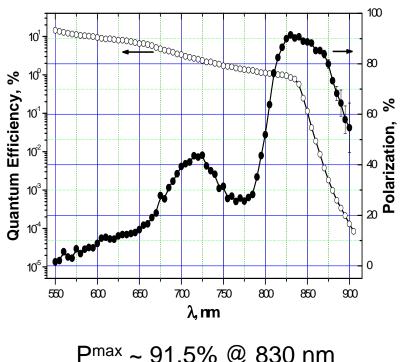
Russian Samples

- Two wafers were grown at loffe on June 5. Both wafers had an As cap.
- Wafers were hand-carried to Zurich, and FedExed to SLAC on June 11.
- Wafers were delivered to SLAC on June 12.
- One sample from the first wafer was measured in CTS on June 14.
- One sample from the second wafer was measured in CTS on June 19.

Duplicate of Superlattice 7-307

• Structure

- GaAs cap 6 nm Be: 7×10¹⁸
- $-AI_{0.39}Ga_{0.61}As 2.1 nm$
- $In_{0.2}AI_{0.2}Ga_{0.6}As 5.4 nm$
 - Repeat x12 Be: 3×10¹⁷
- $-AI_{0.35}Ga_{0.65}As 0.3 \text{ um}$
- GaAs buffer 0.2 um
- 2" n-type GaAs substrate

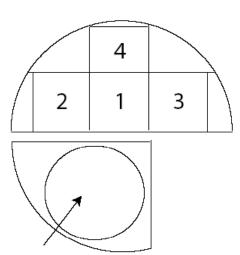


SPbSPU data. November 28, 2006 AllnGaAs/AlGaAs Superlattice 7-307. Roomtemperature

P^{max} ~ 91.5% @ 830 n QE ~ 0.85%

As cap enabled heat-cleaning at 450° C.

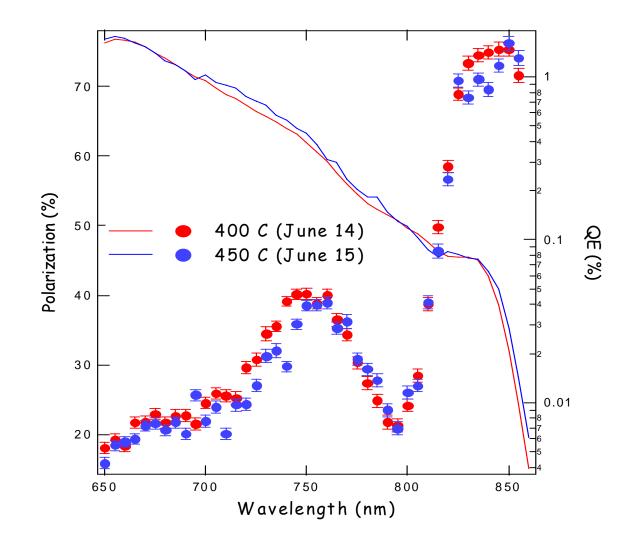
CTS measurements



SLC size cathode for charge limit measurement

- 7-482
 - Sample #1
 - No chem cleaning
 - Heat-cleaned at 400° C
 - Normal cesiation speed
 - Heat-cleaned at 450° C
 - Fast cesiation
- 7-483
 - Sample #1
 - No chem cleaning
 - Heat-cleaned at 400° C





7-483

